

What is claimed is:

1.

A portable platform scale comprising:
a first longitudinally spaced pair of movable forward and rear ramps;
an elongated portable scale platform including a forward end portion detachably connected to and vertically supported by the forward ramp and a rear end portion detachably connected to and vertically supported by the rear ramp;
and
weighing means operatively associated with the scale platform for determining a cargo weight placed on the scale.

2.

The scale of claim 1 comprising a second scale platform including a forward end portion detachably connected to and vertically supported by the forward ramp and a rear end portion detachably connected to and vertically supported by the rear ramp.

3.

The scale of claim 1 comprising a second pair of forward and rear ramps with at least one elongated portable scale platform supported by and detachably mounted therebetween, the second pair of forward and rear ramps being laterally spaced from the first pair of forward and rear ramps.

4.

The scale of claim 3 wherein the at least one scale platform includes a first scale platform and a second scale platform arranged side-by-side.

5.

The scale of claim 3 wherein the second pair of ramps are aligned with and parallel to the first pair of ramps.

6.

The scale of claim 1 wherein the scale platform comprises a forward section and a rear section detachably connected together and supported by a coupling located between and aligned with the ramps.

7.

The scale of claim 1 wherein the weighing means includes a first weigh bar rigidly attached to the forward end portion of each scale platform so as to extend longitudinally therealong and a second weigh bar rigidly attached to the rear end portion of each scale platform so as to extend longitudinally therealong and wherein the forward ramp and the rear ramp each have a longitudinal trough formed therein for slidably receiving and vertically supporting the first and second weigh bars respectively.

8.

The scale of claim 7 wherein the weighing means includes a weight indicator unit having a programmable microprocessor electrically connected to the weigh bars.

9.

The scale of claim 7 wherein stop means protrude upwardly into the trough of each ramp for inhibiting the longitudinal movement of the weigh bars.

10.

The scale of claim 9 wherein each ramp has an upright plate thereon having the trough formed therein and the stop means is an upright connector post formed on the plate so as to extend upwardly into the trough.

11.

A portable platform scale comprising:
a movable forward ramp;
a movable rear ramp;

an elongated portable scale platform including a forward end portion detachably connected to and vertically supported by the forward ramp and a rear end portion detachably connected to and vertically supported by the rear ramp; a first elongated bar rigidly attached to the forward end portion of the scale platform and extending longitudinally thereunder; a second elongated bar rigidly attached to the rear end portion of the scale platform so as to extend longitudinally thereunder; the forward ramp and the rear ramp each have a longitudinal trough formed therein for slidably receiving and vertically supporting the first and second bars respectively; and strain gauges operatively associated with the bars for determining a cargo weight placed on the scale platform.

12.

The scale of claim 11 wherein the scale platform comprises a pair of substantially parallel I-beam side rails vertically supporting a substantially planar horizontal top plate.

13.

The scale of claim 11 wherein the forward ramp and the rear ramp each have an upright connector post formed thereon and the first and second bars each include a vertical hole therein for slidingly receiving the connector post.

14.

The scale of claim 11 wherein the scale platform includes first and second platform sections arranged end-to-end and connected together by an intermediate coupling member, each of the platform sections having a pair of the first and second bars thereon.

15.

The scale of claim 11 wherein the scale platform includes first and second platform sections arranged side-by-side.

16.

A portable platform scale for vehicles having dual wheels comprising:
a pair of independently movable laterally spaced left and right portable forward ramps;
a pair of independently movable laterally spaced left and right portable rear ramps;
a pair of independently movable laterally spaced and elongated portable left and right scale platforms;
the left scale platform having a forward end portion detachably connected to and vertically supported by the left forward ramp and a rear end portion detachably connected to and vertically supported by the left rear ramp;
the right scale platform having a forward end portion detachably connected to and vertically supported by the right forward ramp and a rear end portion detachably connected to and vertically supported by the right rear ramp; and
weighing means including a programmable microprocessor with a display unit connected thereto and a plurality of strain gauges mounted on each of the scale platforms so as to generate signals to the microprocessor indicative of the weight supported by each of the scale platforms.

17.

The scale of claim 16 wherein each of the right and left scale platforms includes a pair of separately formed and independent elongated inboard and outboard platform sections each including a forward end portion detachably connected to

the corresponding forward ramp and a rear end portion detachably connected to the corresponding rear ramp, whereby the inboard sections are adapted to support inboard wheels of the dual wheels and the outboard sections are adapted to support outboard wheels of the dual wheels.

10007573-120603